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ENFORCER
two way wireless technology

Wireless Setup Guide

EN50131-3 : 2009
EN50131-6 : 2008
EN50131-5-3 : 2005
Security Grade 2
Environmental Class II

RINS1348-3

ENFORCER
two way wireless technology

Default codes:

User code:1234

Master Manager Code: 2222

Engineer Code: 1111

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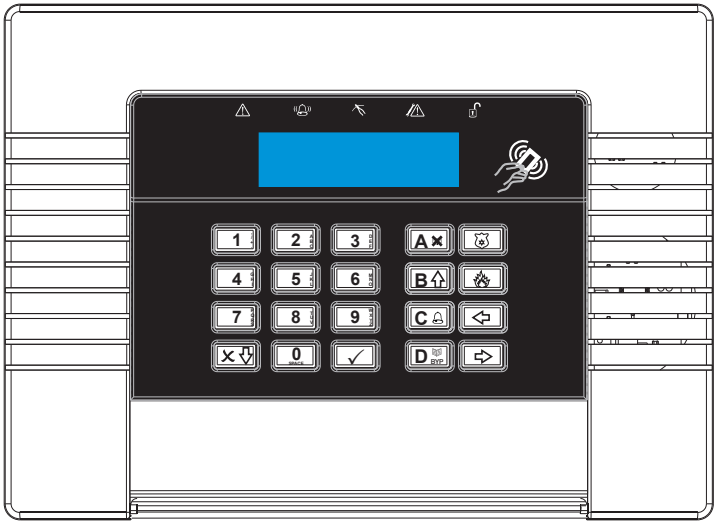
The Enforcer

The Enforcer Control Panel



A = Exit manager menu

B = Moves backwards to the previous menu item

C = Enables chime and displays additional information in the log

D = Moves forward in the log, scrolls between options/enters the master manager menu/bypasses inputs

= Not used

= Directional buttons.

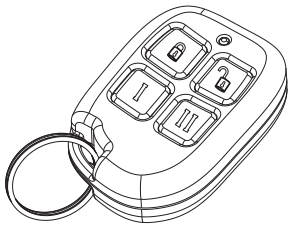
= Selects items and enters menus.

= Cancels items, resets the panel and moves to next item in Master Manager menu

Wireless Keyfob

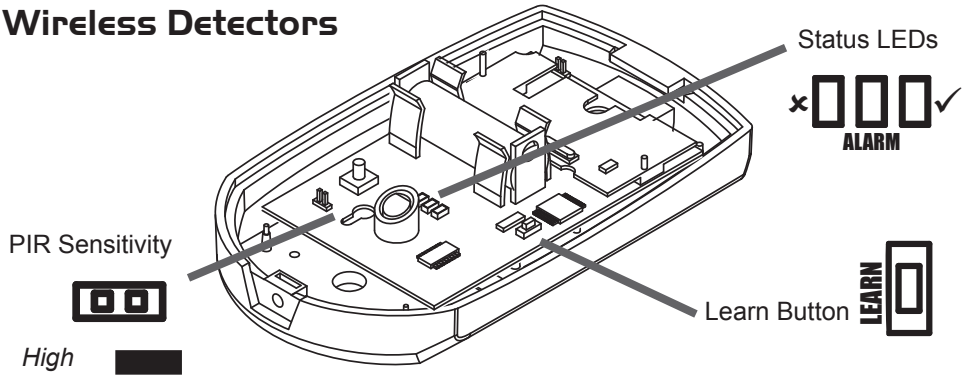
The keyfob may be used to set and unset the Enforcer, as well as other operations.

Please see page 11 for programming.



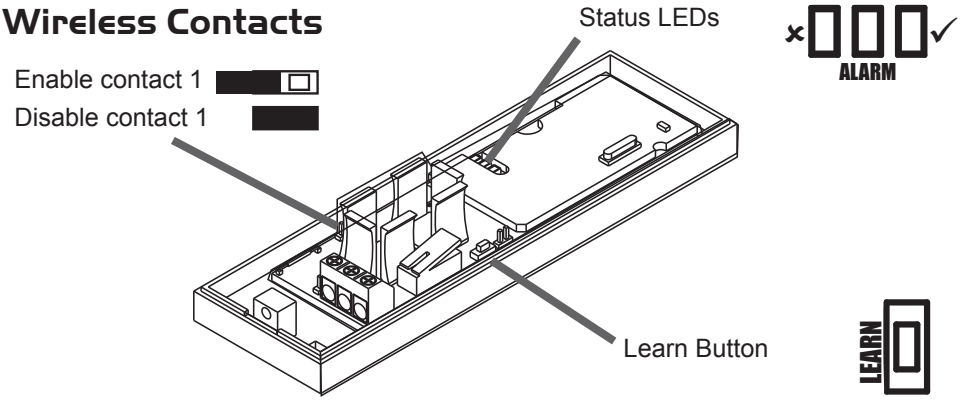
Wireless Devices

Wireless Detectors

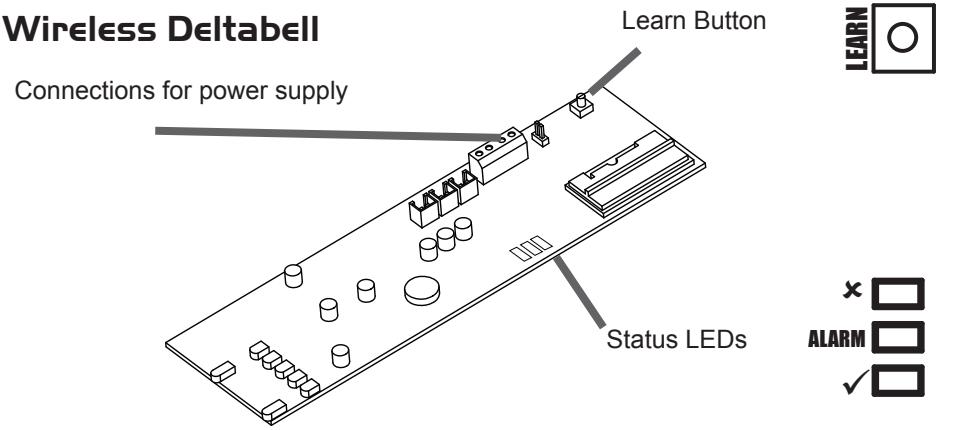


<u>Please note:</u> that if learning smoke/carbon sensors only a learn button and 1 LED will be present.

Wireless Contacts



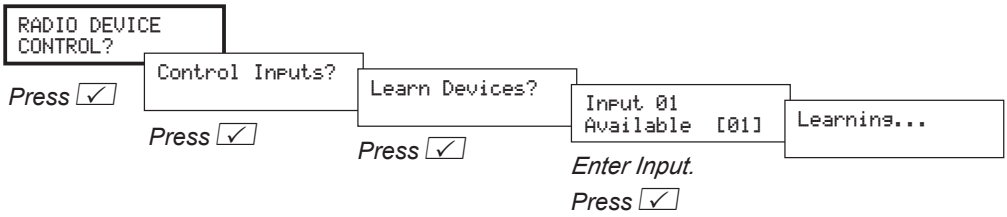
Wireless Deltabell



Simple Learning Guide

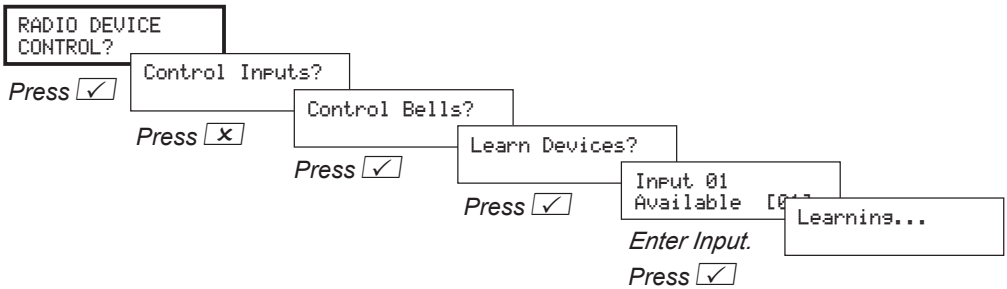
Learning Inputs (In Engineer's Mode)

Use B and X to scroll to:



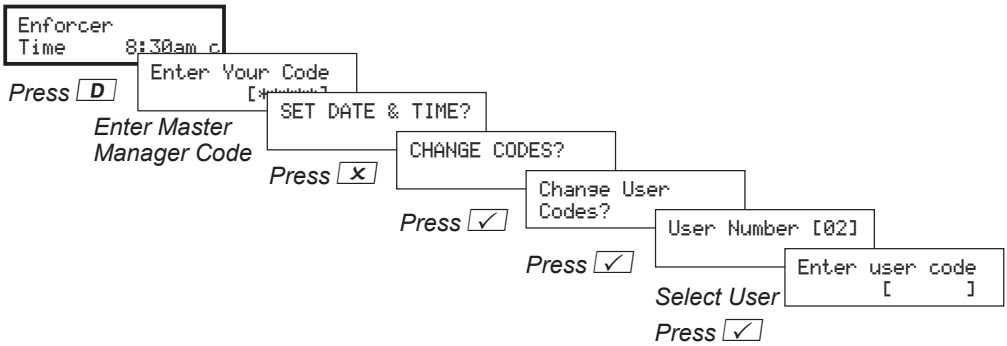
Learning Bells (In Engineer's Mode)

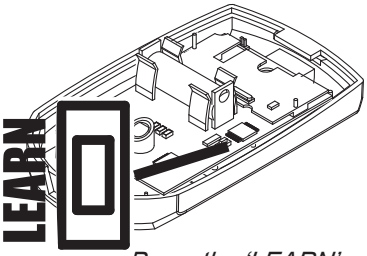
Use B and X to scroll to:



Learning Keyfobs (In Day mode)

Use B and X to scroll to:





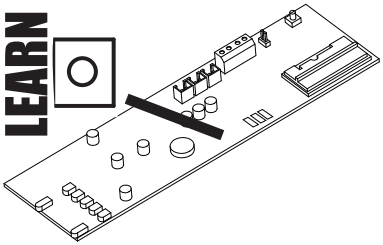
Press the 'LEARN' button on the detector/ contact until the LEDs cycle, then release.

```
Input Learnt
```

Input learnt successfully

The input types will then need to be programmed. Please see 'Change Inputs' in the programming manual.

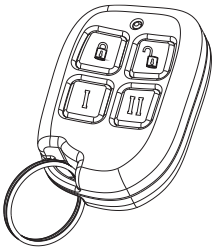
<u>Please note:</u> that if learning smoke/carbon sensors only a learn button and 1 LED will be present.



Press the 'LEARN' button on the bell until the LEDs cycle, then release.

```
Bell Learnt
```

Bell learnt successfully



Press and hold a keyfob button until the RED and GREEN LED flash fast, then release.

```
Enter user code
      [******]
```

Code learnt successfully

```
User Name
_
```

Enter user name

Press ✓

```
Select Button
Lock          [1]
```

Use ◄ ► to select button.

Press ✓

```
Button Action[2]
Set Area
```

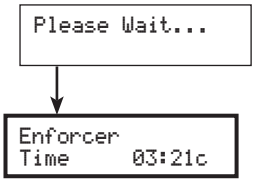
Use ◄ ► to select action

Press ✓

Powering Up / Entering & Exiting Engineers

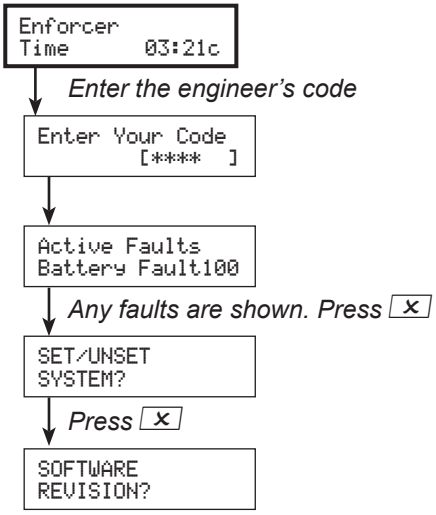
Please note that the initial power up may take a few minutes.

Once the time is displayed, programming can begin.



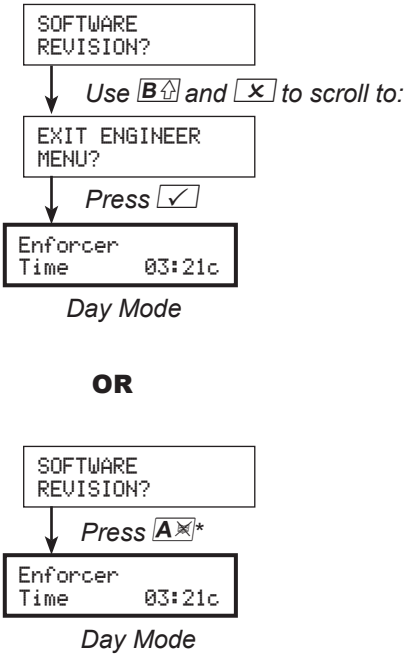
Day Mode

Entering the Engineer Menu



Engineer's Menu

Exiting the Engineer Menu



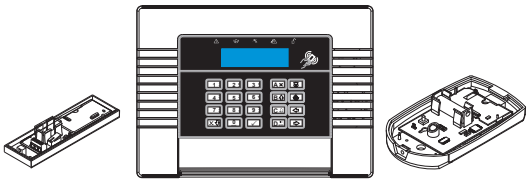
Day Mode

Day Mode

**Note: You can only exit engineer's mode if a main menu is showing (capital letters)*

Learning Contacts & Detectors

It is recommended that all detectors, door contacts or smoke detectors are learnt at the Enforcer before any installation/mounting is done. This makes learning much quicker.



A maximum of 32 wireless inputs may be learnt.

Even though the 'learn' may be successful, the position of the input in a property must be tested for signal strength before it is actually 'fixed' into place. Please see page 13 when analysing the wireless range and signal strength.

Before learning each input (detector or door contact) check that the battery is present and inserted correctly.

Follow the instructions on the right to start learning the inputs.

An input that is learnt correctly will flash the GREEN LED briefly and 'Input Learnt' will be displayed on the keypad. Both of these instances need to occur to indicate a successful learn.

Once learning has completed, each input needs to be given a type (final exit, intruder,etc.) please see the main programming manual (Change Inputs) for more information.

Use [B⇧] and [✕] to scroll to:

RADIO DEVICE CONTROL?

Press [✓]

Control Inputs?

Press [✓]

Learn Devices?

Press [✓]

Input 01 Available [01]

Input 02 Learnt [02]

Enter Input. Press [✓]

If 'learnt' is displayed on an input, this will need to be deleted before learning can begin. See page 12 for deleting inputs.

Learning...

When 'Learning' is displayed, press and hold the 'LEARN' button on the device until the LEDs cycle, then release.

Input Learnt

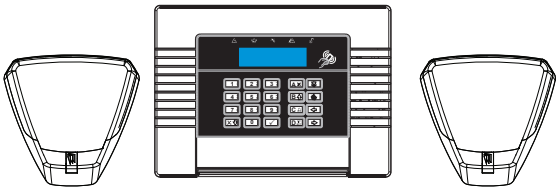
Input Learnt Already!

If the input device has already been learnt to the Enforcer system, 'Input Learnt Already!' will be displayed.

Press [✓]

Learning Bells

It is recommended that all wireless bells are learnt at the Enforcer before any installation/mounting is done. This makes learning much quicker.



A maximum of 2 wireless external bells (Deltabell WE) can be connected to the Enforcer.

Even though the 'learn' may be successful, the position of the bell box on a property must be tested for signal strength before it is actually 'fixed' into place. Please see page 13 when analysing the wireless range and signal strength.

Before learning each bell check that the battery is present and is inserted correctly.

Follow the instructions to the right to start learning the bells.

A bell that is learnt correctly will flash the GREEN LED briefly and display 'Bell Learnt' on the keypad. Both of these instances need to occur to indicate a successful learn.

Green ☐ ✓
Blue ☐ ALARM
Red ☐ ✘

Use [B⇧] and [x] to scroll to:

RADIO DEVICE CONTROL?

Press [✓]

Control Inputs?

Press [x]

Control Bells?

Press [✓]

Learn Devices?

Press [✓]

Select Bell Available [1]

Select Bell Learnt [2]

Enter Bell. Press [✓]

If 'learnt' is displayed on a bell, this will need to be deleted before learning can begin. See page 12 for deleting bells.

Learning...

When 'Learning' is displayed, press and hold the 'LEARN' button on the bell until the LEDs cycle, then release.

Bell Learnt

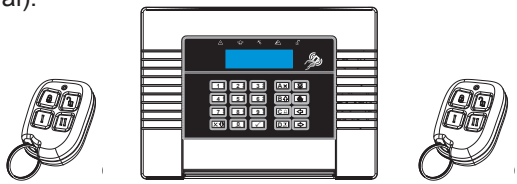
Bell Learnt Already!

If the bell device is already learnt on the Enforcer system, 'Bell Learnt Already!' will be displayed.

Press [✓]

Learning Keyfobs

The master manager menu has to be used to assign keyfobs to the user codes. Follow the instructions to the right to enter the master manager menu (for more information please see the user manual).



A maximum of 32 keyfobs can be assigned to the Enforcer.

Each keyfob has 4 buttons that can have specific operations:

[0] No action: Disables the button

[1] Show Status: If the keyfob is learnt, the LED will flicker when the nominated button is pressed.

GREEN = Unset. RED = Set.

[2] Set Area: Sets the chosen area

[3] Unset Any Area: Unsets any area on the system

[4] Latch Output: Latches an output (programmable) when the nominated button is pressed.

[5] Timed Output: Activates an output for a period of time (programmable in seconds)

Before learning each keyfob check that the battery is present and inserted correctly.

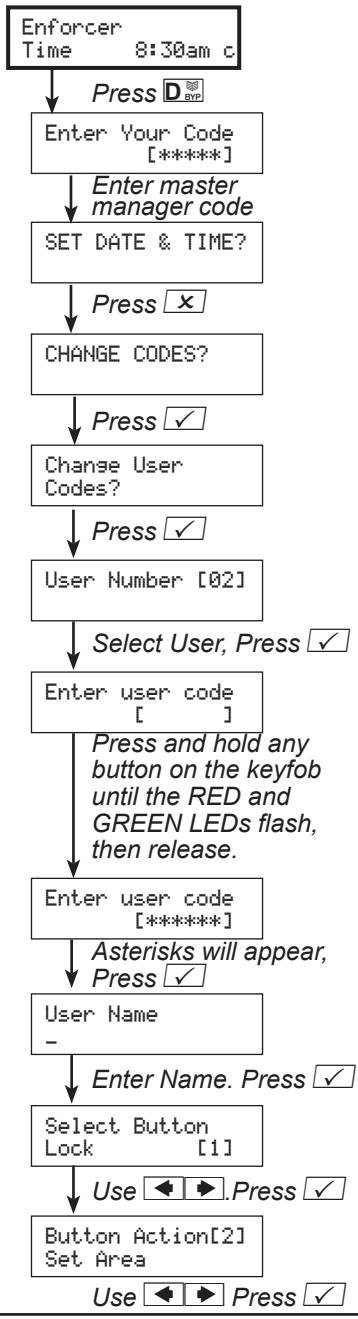
When learning a keyfob, any button must be held until the LED flashes GREEN and RED, and then when released, a GREEN LED will be shown, asterisks will appear in the brackets on the keypad and an acknowledgement beep will be heard, all indicating a successful learn.

Keyfob buttons can also be programmed in the engineer menu, in the same way as shown here (please see the programming manual for more information)

Deleting Keyfobs

To delete a keyfob/user code, press the C key when the display shows 'Enter a user code' on the chosen code and the astericks on the display will erase. Press ✓ to accept

Day mode

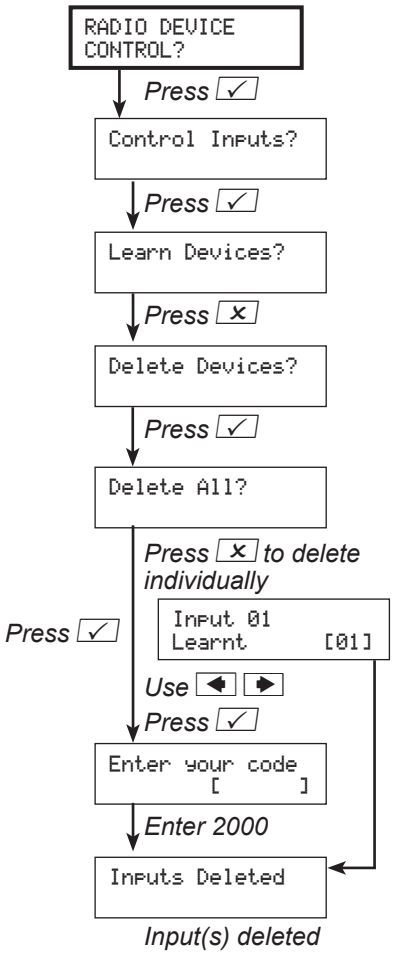


Deleting Inputs / Bells

Deleting inputs and bells from the Enforcer can either be done collectively or individually.

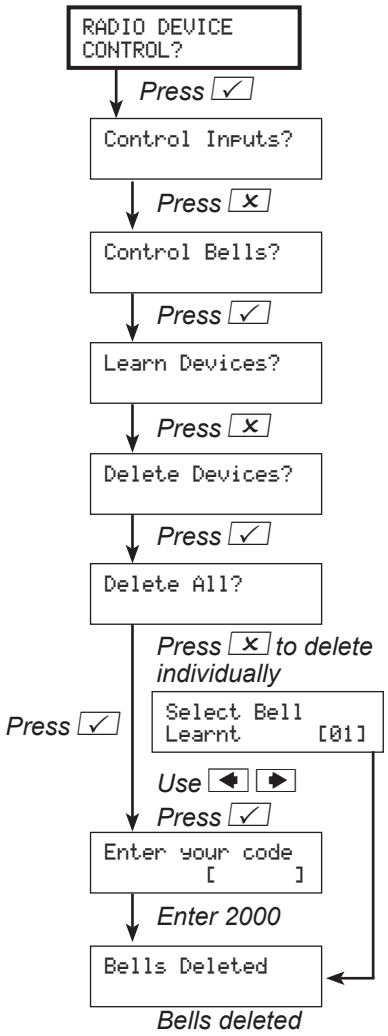
Deleting Inputs

Use B and X to scroll to:



Deleting Bells

Use B and X to scroll to:



Diagnostics

The diagnostics function shows all wireless (radio) input and bell signal strengths and battery strengths.

Signal Strength (Inputs and Bells)

One of the most important factors for a reliable wireless installation is the signal strength between a wireless device and the panel. If a device is out of range it will not be able to send events to the Enforcer panel therefore it is recommended that a signal strength test is performed before fixing devices into place. The Enforcer has an advanced signal strength mechanism that operates by monitoring all inputs/bells after 5 minutes from the start of the test. It will perform this test every 16 seconds.

NOTE: When performing a signal strength test it is recommended that the system is tested in the 'worst case scenario' for example with all doors and windows closed.

Once the function is entered, a count down from 300 will begin, when 0 is reached the input results display will be shown, or press ✓ during the count down to go to the input display immediately, one of the following will be displayed:

Result	Action
-	No device installed
?	Waiting for device signal strength information
0	Missing (reposition and retest)
1	Weak signal (reposition and retest)
2	Good install position
3	Excellent signal

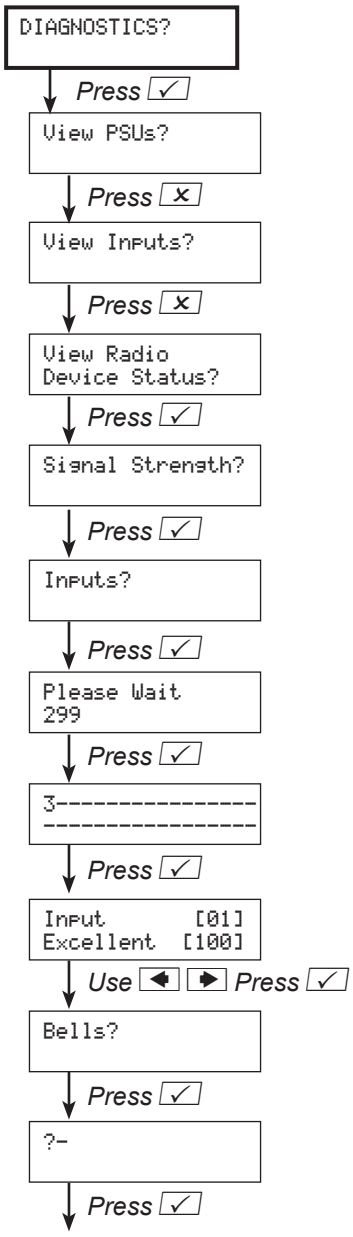
The signal strength can also be read from the wireless device LEDs.

GREEN LED = Good. **RED LED** = Bad

When the display is showing the input status, pressing ✓ will show each individual input and a detailed signal strength reading will be shown as follows:

Result	Action
Excellent [50 to 100]	OK to install
Good [30 to 49]	OK to install
Weak [0-29]	Not OK to install
Missing [-]	Not OK to install

Use B⇧ and x to scroll to:



Battery Status

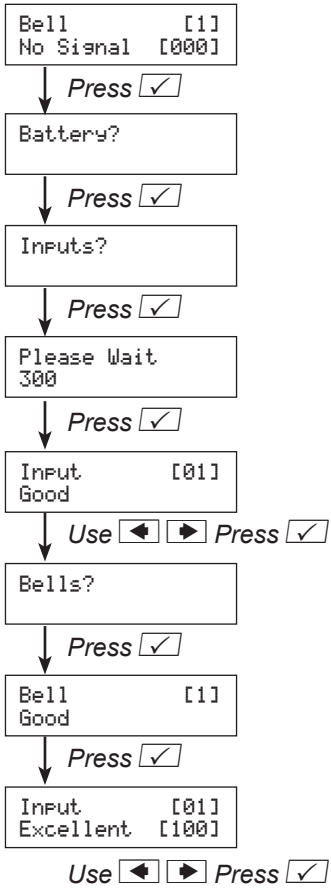
The diagnostics function also monitors the battery of each of input and bell so that any low/bad batteries can be quickly recognised and replaced.

The Enforcer has an advanced battery test mechanism that operates by monitoring all inputs/bells after 5 minutes from the start of the test. It will perform this test every 16 seconds.

Once the function is entered, a count down from 300 will begin. Press ✓ to go to the main display, one of the following will be displayed:

Testing	Waiting for a battery result
Good	At least one month of battery life remaining
Replace	Battery needs to be replaced immediately

Diagnostics Continued...



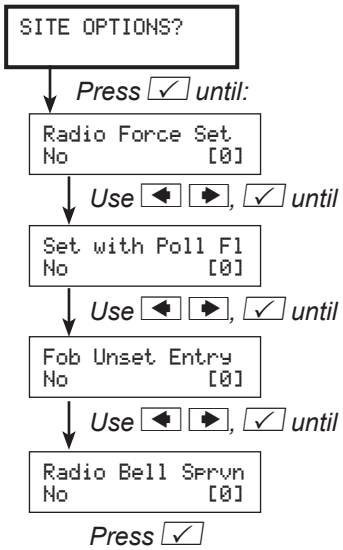
Wireless Functions

Site Options

In the site options function there are 3 functions for the Enforcer:

- *Radio Force Set:* If any radio device is in fault (e.g. has failed supervision or the signal is jammed) and if this option is enabled, the user can force the Enforcer to set regardless. ***[0] No [1] Yes***
- *Set With Polling Fault:* This allows the Enforcer to set even if a device has missed 20 minutes worth of device polls. ***[0] No [1] Yes***
- *Fob Unset Entry:* If this function is enabled a keyfob can only be used to unset the control panel when the entry time is counting down. ***[0] No [1] Yes***
- *Radio Bell Supervision:* If this function is enabled, the bell performs its own supervision and jamming protection, and will alarm if either condition occurs (this cannot be silenced by the panel). The alarm will stop after the bell expiry time, when the jamming stops or when a supervision message has been received by the panel. If this function is disabled, it will work the same way as an input. No supervision or jamming will be detected by the bell, but the Enforcer will still detect both depending on the timers.
  [0] No [1] Yes

Use B and X to scroll to:

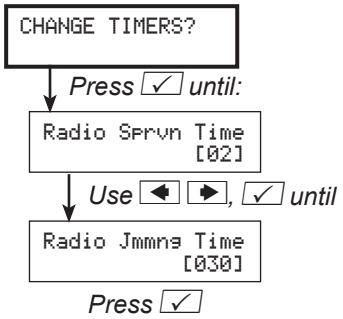


Change Timers

In the change timers function there are 2 functions for the wireless (radio) operation:

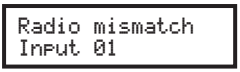
- *Radio Supervision Time:* This is the time window before a supervision fault will be signalled. For example: if the time is set for 2 hours, then any device that doesn't communicate with the Enforcer within that period will cause a supervision fault. ***[0-99] hours (0=supervision faults ignored) NOTE: Must be set to 2 hours or less to comply with EN50131.***
- *Radio Jamming Time:* This is the time window that monitors the signals of each wireless device. If a signal is 'blocked' for longer that the programmed time a fault will be displayed. ***[0-100] seconds (0=jamming faults ignored). NOTE: It is not recommended to program less than 10 seconds. Must be set to 100 seconds or less (but not to zero) to comply with EN50131.***

Use B and X to scroll to:

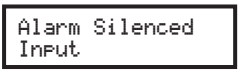


Fault Displays

Radio Mismatch: If an input is assigned as a type (final exit, intruder, etc) but a detector has not been learnt on this input number or a detector has been learnt but not assigned an input type, this fault will be displayed.



Radio Tamper: If a radio input is in tamper, the alarm will activate and the input in fault will be displayed.



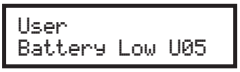
Battery Low: The Enforcer monitors the batteries of each wireless device and is defined by the following:

Battery Low UXX (U = Keyfobs. XX = User Number)

Battery Low IXX (I = Inputs. XX = Input Number)

Battery Low BXX (B = Bell. XX = Bell Number)

If battery low is displayed it is advisable to replace the battery within 28 days of this message being shown.

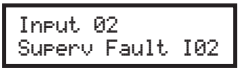


Radio Supervision: The Enforcer monitors the operation of each wireless device and is defined by the following:

Radio Supervision IXX (I = Input, XX = Input Number)

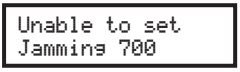
Radio Supervision BXX (B = Bell, XX = Bell Number)

If this occurs it would be advisable to check the signal strength of the device in the diagnostics function.



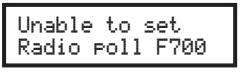
Jamming: This is reported when a jamming signal is recognised on the radio frequency.

Check that no radio interference is in close proximity to the radio devices/panel.



Radio Poll Fault: This is displayed when no ‘polls’ are received for 20 minutes before the set operation

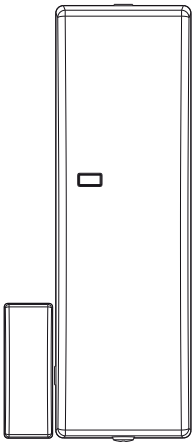
Test the signal strength / battery on each wireless device.



PLEASE NOTE THAT SETTING MAY NOT BE POSSIBLE IF ANY FAULTS ARE PRESENT ON THE CONTROL PANEL. PLEASE SEE ‘SITE OPTIONS’ IN THE MAIN PROGRAMMING MANUAL TO ALTER THIS SETTING

Technical Specifications

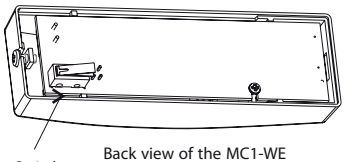
Model:	MC1-WE
Colour:	WHITE
Casing:	3mm ABS, 0.4mm HDPE in Lens Area
Transmission Frequency:	868MHz, FM Transceiver Narrow Band
Transmission Method:	Fully Encrypted Rolling Code
Transmission Range:	300m Free Space
Indication:	Three LED Combinations (RSSI, Battery Status and Alarm)
Reed Switch:	1 x MC1-WE
Detection Points:	2, Side and End
Detection Inputs:	1 External Input & 1 External Tamper Input
Battery:	3.6V 2.2Ahr AA Lithium Battery
Battery Life:	Up to 2 Years
Tamper Switch:	Front + Optional Rear Tamper
Storage Temperature:	-20°C to 50°C
Operating Temperature:	-10°C to 50°C



Rear Tamper Switch

There is a rear wall tamper protection switch at the back of the MC1-WE device.

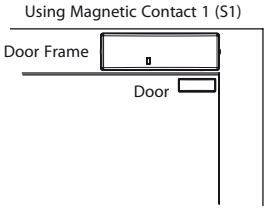
This tamper protection switch prevents the device from being removed from its installed location and prevents the lid from being removed.



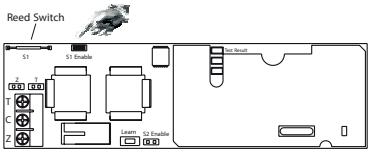
Detection point

The MC1-WE has a detection point:

The example below shows how you can use them on an entry door:

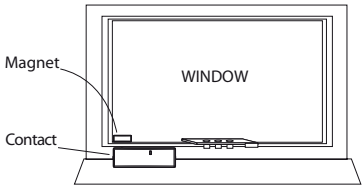


To enable Magnetic Contact 1 you must remove the jumper link from the S1 enable pins:

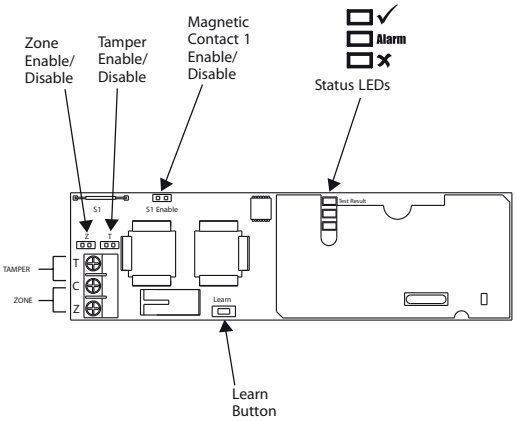


Detection point

Using Magnetic Contact 1 on a window



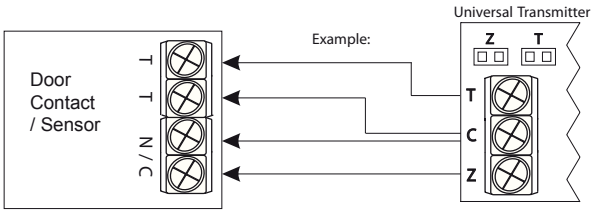
Printed Circuit Board



External Input & Tamper Input

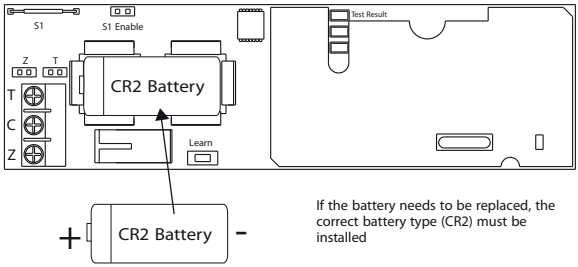
The MC1-WE has an extra input incorporated that can be used for external contacts or sensors.

The jumper pins ‘Z’ and ‘T’ should both be disabled when these are used.



Recommended maximum cable length of 10m

Applying the battery



If the battery needs to be replaced, the correct battery type (CR2) must be installed

The batteries supplied have been chosen to provide long service life whilst, for safety reasons, having limited output current.

The battery is protected on purchase by a piece of plastic that must be removed for operation.

To prevent possible damage to components, any static charge on your body needs to be eliminated before touching the inside of the unit. This can be accomplished by touching some grounded/earthed metallic conductor such as a radiator/pipework immediately before replacing the batteries.

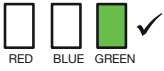
Learning the MCI-WE to the Enforcer control panel

When you are ready to learn the device to the control panel receiving equipment, and when the equipment is in the learn mode (see Enforcer Programming Manual) follow the procedure below.

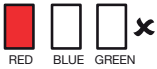
1. Make sure the battery is installed correctly and the plastic wrapping removed.
2. Press and Hold the Learn button until the 3 LEDs start cycling through the different colours, then release the Learn button.
3. The device is correctly learnt when the Green LED flashes.

The three coloured LEDs give a visual indication of the signal strength.

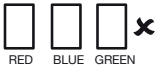
Green indicates good signal strength and is a good location to install.



Red indicates poor signal strength and the device should not be installed in that position.



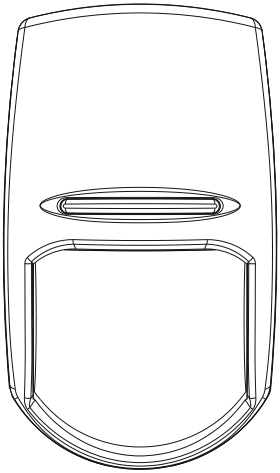
If no LED illuminates then the device is completely out of range.



The blue LED will illuminate when the device is activated.

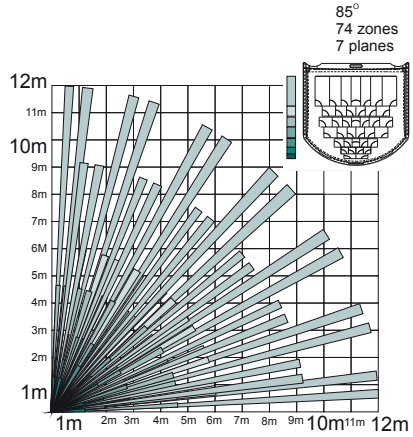
Technical Specifications

Model:	KX12DW® 12m Internal detector
Colour:	WHITE
Casing:	3mmABS, 0.4mm HDPE in LensArea
Transmission Frequency:	868MHz, FMTransceiver Narrow Band
Tranmission Method:	Fully Encrypted Rolling Code
Transmission Range:	300m Free Space
Detection Method:	Low Noise Pyroelectric Sensor
Sensitivity:	High, Low
Temperature Compensation:	AdvancedAutomatic
Detection Range:	12m
Detection Zones:	74
Detection Speed:	0.3 - 3.0 m/s
DetectionAngle:	85°
Battery:	CR123A Lithium Battery
Battery Life:	Greater than 2 years
Mounting Height:	1.8m to 2.4m
Tamper Switch:	Front + Optional RearTamper
Storage Temperature:	-20℃ to 50℃
Operating Temperature:	-10℃ to 50℃
Accessories:	Wall and ceiling mounting brackets optional
Emissions:	EN55022 Class B
Immunity:	EN50130-4

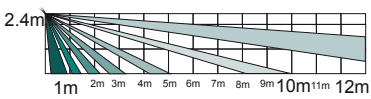


Coverage pattern

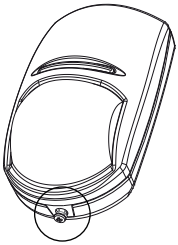
Horizontal coverage



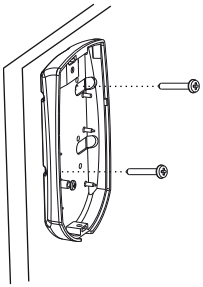
Vertical coverage



Installation & wall mounting

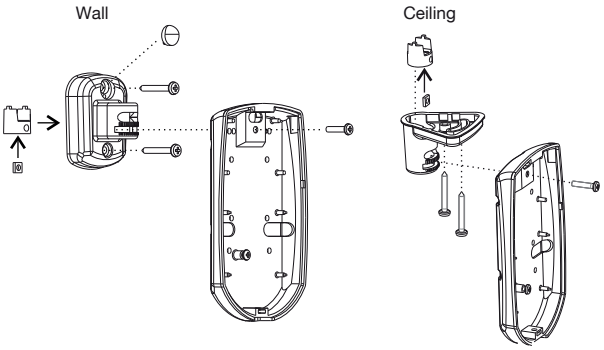


CASE LID
SCREW FITTING



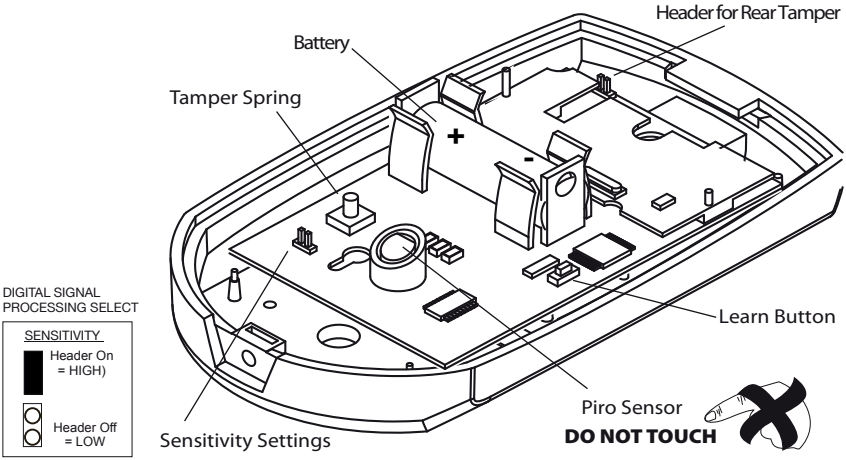
NOTE: When mounting the detector, ensure that it is not tilting backwards.

Optional bracket fitting



Part number: FPKXBRACKET

The KX12DW-WE Printed Circuit Board



Avoiding false alarms

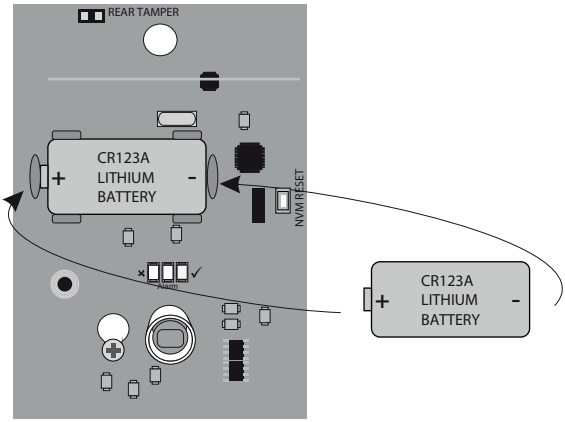
1. Avoid placing the detector in direct sunlight.
2. Do not let pets and other animals wander freely whilst the alarm system is armed.
3. Do not mount the detector near heaters or radiators.
4. Do not mount the detector near open windows or air vents.
5. Mount the detector on a stable surface.

Changing the battery

The batteries supplied have been chosen to provide long service life whilst, for safety reasons, having limited output current.

Replace only with approved batteries.

To prevent possible damage to components, any static charge on your body needs to be eliminated before touching the inside of the unit. This can be accomplished by touching some grounded/earthed metallic conductor such as a radiator/pipework immediately



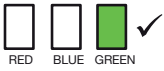
Learning the MCI-WE to the Enforcer control panel

When you are ready to learn the device to the control panel receiving equipment, and when the equipment is in the learn mode (see Enforcer Programming Manual) follow the procedure below.

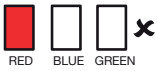
1. Make sure the battery is installed correctly and the plastic wrapping removed.
2. Press and Hold the Learn button until the 3 LEDs start cycling through the different colours, then release the Learn button.
3. The device is correctly learnt when the Green LED flashes.

The three coloured LEDs give a visual indication of the signal strength.

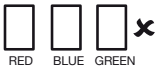
Green indicates good signal strength and is a good location to install.



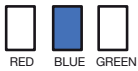
Red indicates poor signal strength and the device should not be installed in that position.



If no LED illuminates then the device is completely out of range.

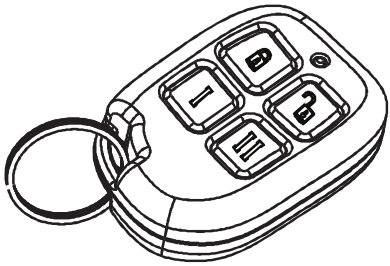


The blue LED will illuminate when the device is activated.



Specifications

Transmission Frequency:	868MHz
Transmission Method:	Fully encrypted rolling code
Transmission Range:	300m free space
Battery:	CR-1/3N Li-Mn Cell (3 volts)
Battery Life:	Up to 2 years
Operating Temperature:	-10 to +40 °C
Emissions:	EN55022 Class B
Immunity:	EN50130-4
Dimensions:	60 x 40 x 15 mm
Weight:	28g



KF4-WE Learning

1. Put the Enforcer control panel into the “Change Codes” menu (see Enforcer User Manual for full details).
2. When prompted to enter a new user code, press any keyfob button.
3. Once asterisks appear on the Enforcer keypad, the new keyfob is learned on the system.

Locking the Keyfob

All 4 buttons on the keyfob may be locked so that any accidental presses won’t affect your alarm system.

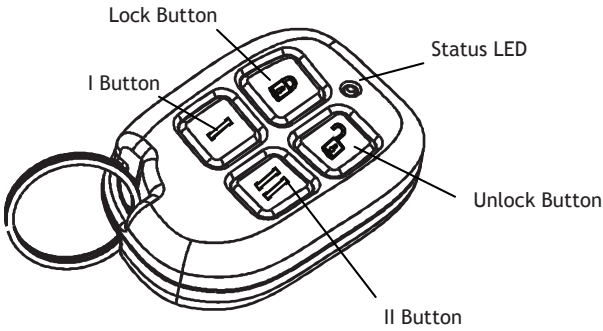
Locking the keys on the keyfob is performed by pressing any buttons that are diagonal with one another at the same time: i.e. Lock & II or Unlock & I.

The RED LED will flash indicating that the fob has been locked.

To unlock, press both buttons together again, and the GREEN LED will flash indicating that the keyfob is now unlocked.

Note: When locked, the LED status is disabled.

The KF4-WE Buttons

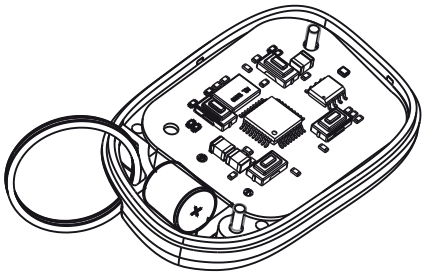


Changing The Battery

The batteries supplied have been chosen to provide long service life whilst, for safety reasons, having limited output current.

Replace only with approved batteries.

To prevent possible damage to components, any static charge on your body needs to be eliminated before touching the inside of the unit. This can be accomplished by touching some grounded/earthed metallic conductor such as a radiator/pipework immediately



CR-1/3N Li-Mn Cell (3 volts)

Resetting the keyfob

To do a nvm reset on the keyfob, first remove the battery, then press and hold down the lock and unlock buttons together and reinsert the battery at the same time. Continue holding down the buttons for another 10 seconds and then release.

SHOCK-WE

Wireless transmitter with wall tamper and shock sensor

The wireless transmitter with wall tamper and shock sensor is used on the Enforcer Radio Control Panel along with the current range of detectors, receivers and transmitters.

The function of the shock sensor wireless transmitter is to provide an alarm signal if vibrations picked up from its mounting surface exceed a predetermined level, which can be easily adjusted.

Technical specification

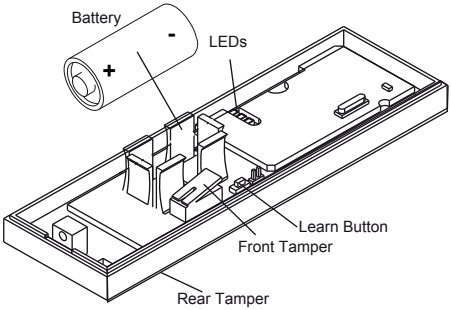
Electrical Specification
Voltage: >2.5V
Current: 12uA

Sensitivity
High range sensitivity band
Low range sensitivity band
Disturbance: Rolling 30s period

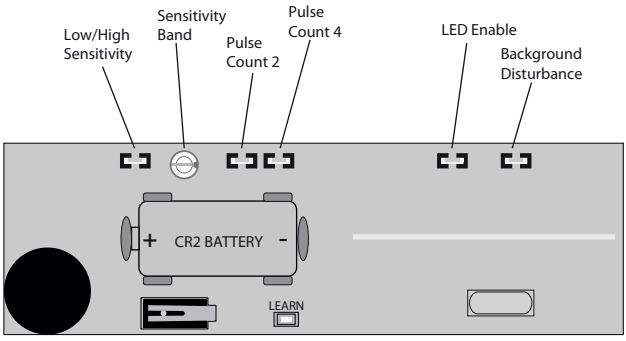
Battery
Life: Greater than 2 years
CR2 3.0 Volt

Operating Environment
-10 to 50°C

Printed Circuit Board



Adjustable PCB settings



Descriptions

1. **Tri-Colour LED:** When the sensor detects a vibration, the LED will illuminate in one of two colours:

   GREEN: Pre-Alarm Detection, but the alarm threshold not yet reached

   BLUE: Alarm

   If only the **GREEN** LED illuminates, the sensitivity of the unit may need increasing. Please see "7. Potentiometer and Sensitivity Range" to increase the sensitivity.

---

2. **Background Disturbance:** If there is a constant background disturbance then this can be filtered out by fitting the background disturbance link which will monitor for this.

---

3. **LED Enable:** If this link is removed, the tri-colour LED will be disabled at all times, which will save battery life.

---

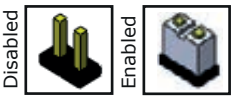
4. **Reset Button:** To learn the wireless transmitter on the radio expander, the reset button needs to be pressed after the battery is installed. For full programming on this procedure, please refer to the expander manual.

---

5. **Pulse 4:** If this link is fitted, a count of 4 pulses (GREEN LED) in a rolling 30 second window, will generate an alarm activation.

---

6. **Pulse 2:** If this link is fitted, a count of 2 pulses (GREEN LED) in a rolling 30 second window, will generate an alarm activation.



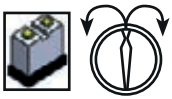
---

7. **Potentiometer and Sensitivity Range:** The sensitivity can be either increased or decreased using the potentiometer and sensitivity link.

Low Range Sensitivity Band:

Link Off and Turn potentiometer right for more sensitive and left for less sensitive

High Range Sensitivity Band:



Link On and Turn potentiometer right for more sensitive left for less sensitive

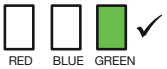
Learning the SHOCKWE to the Enforcer control panel

When you are ready to learn the device to the control panel receiving equipment, and when the equipment is in the learn mode (see Enforcer Programming Manual) follow the procedure below.

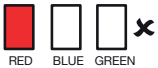
1. Make sure the battery is installed correctly and the plastic wrapping removed.
2. Press and Hold the Learn button until the 3 LEDs start cycling through the different colours, then release the Learn button.
3. The device is correctly learnt when the Green LED flashes.

The three coloured LEDs give a visual indication of the signal strength.

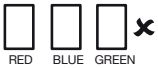
Green indicates good signal strength and is a good location to install.



Red indicates poor signal strength and the device should not be installed in that position.



If no LED illuminates then the device is completely out of range.



The blue LED will illuminate when the device is activated.

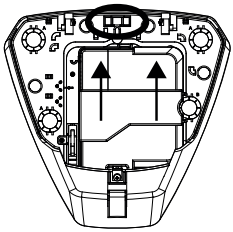
Technical specification

Battery	CR3 3.0 volt 11000MAh Lithium battery
Strobe duration	10mS
Strobe Frequency	1Hz
Sound pressure level	101dBA
Dimensions	290 x 285 x 50 mm
Reverse polarity protected	

Installation Steps:

Step 1

Slide the PCB module upwards. The sprung back-tamper arm can be retracted to allow removal. This must be done in order to install the revolving guides - see step 3.

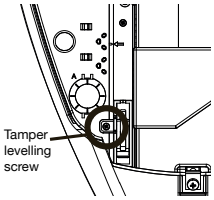


Place the base on a flat surface and ensure it is vertical using the Spirit level that is already installed. Drill and plug in each of the fixing locations. The revolving guides will correct any misalignment. If the Deltabell WE must be mounted on an uneven surface, it is recommended that a tamper levelling screw is used to ensure correct back-tamper operation. See step 2.

Step 2

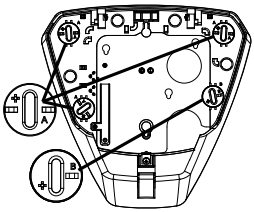
Mounting the Deltabell WE on an uneven surface may cause false triggering, through incorrect operation of the back-tamper.

A POZI number 2 screw driver is recommended for adjusting back tamper screw.



Step 3

Insert the guides in as shown. Make sure that the guides ‘B’ is aligned with the tabs to the right (this is so the PCB module slides in)



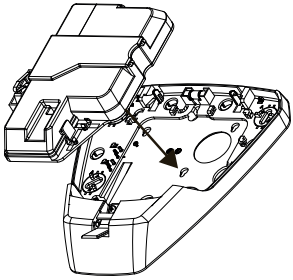
Turn each guide until they line up with the drilled holes, while referencing the spirit level for the correct alignment and fix the base firmly to the wall.

Please note, if the Deltabell WE is installed on an uneven surface, it is recommended that you do not tighten up the wall screws until after the module is installed (step 4).

Step 4

Place the PCB module, ensuring that the arrow is aligned with the marker (on the left of the module).

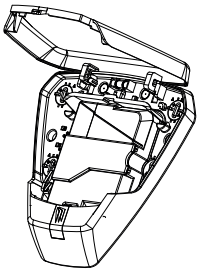
Expose the terminals by releasing the latch on the top of the PCB module.



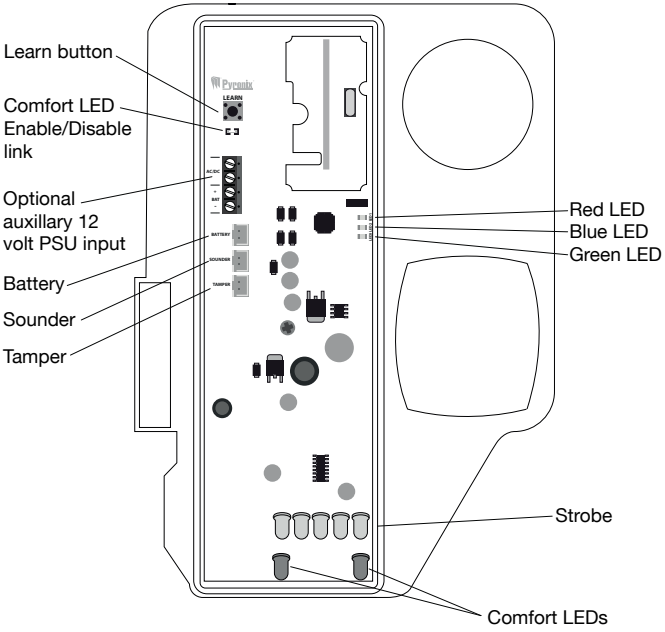
Step 5

Fit the lid by sliding its hinges into place. The lid can be supported in the fully open position; to close the lid, apply a little force to push the lid past the holds.

Close the cover, ensure the tamper is operating correctly and insert the 25mm long screw supplied and rotate the screw cover to a close.



Printed circuit board

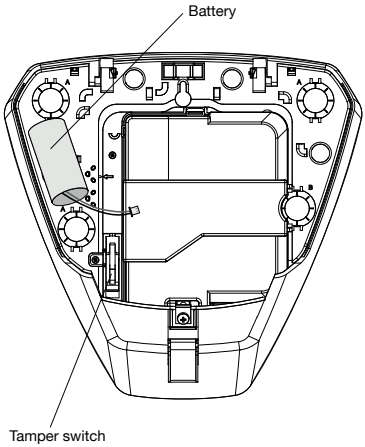


Battery

The batteries supplied have been chosen to provide long service life whilst, for safety reasons, having limited output current.

Replace only with approved batteries.

To prevent possible damage to components, any static charge on your body needs to be eliminated before touching the inside of the unit. This can be accomplished by touching some grounded/earthed metallic conductor such as a radiator/pipework immediately before replacing batteries.



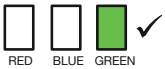
Learning the DELTABELL-WE to the Enforcer

When you are ready to learn the device to the control panel, and when the Enforcer is in the learn mode (see Enforcer Programming Manual) follow the procedure below.

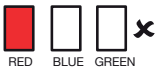
1. Make sure the battery is installed correctly and the plastic wrapping removed.
2. Press and Hold the Learn button until the 3 LEDs start cycling through the different colours, then release the Learn button.
3. The device is correctly learnt when the Green LED flashes.

The three coloured LEDs give a visual indication of the signal strength.

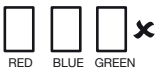
Green indicates good signal strength and is a good location to install.



Red indicates poor signal strength and the device should not be installed in that position.



If no LED illuminates then the device is completely out of range.



The blue LED will illuminate when the device is activated.

ENFORCER
two way wireless technology

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Or telephone: +44(0)1709 535225

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